



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 22, 2020

Ellen Baldassare
Regulatory Affairs Consultant
Lanxess Corporation
111 RIDC Park West Drive
Pittsburgh, PA 15275

Subject: Notification per PRN 98-10 – Adding Non-OIE Viruses
Product Name: Virkon™ S
EPA Registration Number: 39967-137
Application Date: December 27, 2019
Decision Number: 560353

Dear Ms. Baldassare:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, you may contact Jousett Service at 703-308-6416 or via email at Service.Jousett@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Jacqueline Hardy".

Jacqueline Hardy
Product Manager 34
Regulatory Management Branch II
Antimicrobials Division (7510P)

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

NOTIFICATION

39967-137

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

10/22/2020

Virkon™ S

[Disinfectant and Virucide*]

[BROAD SPECTRUM DISINFECTANT,][FUNGICIDE] [& ALGAECIDE]

[Fragrance Free] [and] [Reduced Dye] [Fragrance and Dye Free]

[For Use in Cleaning and Disinfecting Industrial, Animal and Agricultural Facilities]

[For Use in Emergency Disease Control related to Animal Health] [For Use in Emergency Disease Response related to Animal Health] [For Use in Emergency Disease Preparedness related to Animal Health] {note to reviewer- see page 24 for additional optional header text}

Effective against Viruses* [Including Canine Parvovirus*]

Bacteria

Fungi

ACTIVE INGREDIENTS:

Potassium peroxydisulfate 21.41%

Sodium Chloride 1.50%

OTHER INGREDIENTS 77.09%

TOTAL 100.00%

[Equivalent to 9.75% Available Chlorine]

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

[See [Inside Booklet][back panel][/] [side panel][leaflet] for [Additional Precautions] [and] [Directions for Use] [and] [Storage and Disposal instructions][and][*explanatory notes].]

[See [side][/][back] panel for additional precautions and leaflet for additional directions for use]

[See Side Panel for Precautionary Statements]

[Refer to accompanying labeling for additional precautions and complete directions for use]

[See leaflet for additional directions for use [and * explanatory notes.]]

EPA Reg. No. 39967-137

EPA Est. No. XXXXX-YY-ZZZ

<Lot or batch #> [Product Code#]

[Net Contents: XXX [(X-containers)] [(tablets)][see individual container]]

[POWDER FORM] [TABLET FORM] [TABLETS][SACHET FORM] [INDIVIDUAL SACHETS]

Revision Submission Date: December 27, 2019

Page 1 of 47

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 [Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]
 [Virkon™ Professional – ABN]

Front Panel Continued

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[©[2017]][2018][2019] [2020] LANXESS. trifectant™ is a registered trademark of Antec International Ltd.]

FIRST AID	
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice.
If on Skin or Clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice.
If Swallowed:	Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
[HOT LINE NUMBER]	
For 24-hour emergency information on this product, call 866-673-6350. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.	

Manufactured for:
 Lanxess Corporation
 111 RIDC Park West Drive
 Pittsburgh, PA 15275

[Distributed by:
 Vetoquinol USA Inc.
 4250 N. Sylvania Ave
 Fort Worth, Texas 76137]

For information:
 US/Canada (800) LANXESS
 International +1 412 809 1000

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{note to reviewer: The following index/indices is/are optional on commercial labeling. Additionally the optional pathogen list/table (starting on page 40 of the master label) may be used in its place}

[EFFECTIVE AGAINST THE FOLLOWING [PATHOGEN[S]]:

[ANIMAL AND ZOONOTIC PATHOGENS]

BACTERIA

[Actinobacillus pleuropneumoniae]

[Bacillus cereus]

[Brucella abortus]

[Campylobacter jejuni]

[Clostridium perfringens]

[Dermatophilus congolensis (2%)]

[Escherichia coli]

[Klebsiella pneumoniae]

[Mycoplasma gallisepticum]

[Mycoplasma hyopneumonia]

[Pasteurella multocida]

Pseudomonas aeruginosa

Salmonella enterica

Salmonella typhimurium

[Shigella sonnei]

[Staphylococcus aureus]

[Staphylococcus epidermidis]

[Streptococcus pyogenes]

[Streptococcus suis]

[Not approved in California for use against the following bacteria]

[Bordetella avium]

[Bordetella bronchiseptica]

[Fistulous withers (Poll Evil)]

[Haemophilus somnus]

[Helicobacter pylori]

[Leptospira canicola]

[Listeria monocytogenes]

[Moraxella bovis (Pink Eye)]

[Mycoplasma mycoides]

[Pseudomonas mallei (Glanders)]

[Proteus vulgaris]

[Staphylococcus hyicus [(Greasy Pig)]]

[Streptococcus equi (Strangles)]

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[*Tylorella equigenitalis*]
[*Treponema hyodysenteriae*]

VIRUSES*

Avian Influenza Virus

[Avian [Infectious] Laryngotracheitis Virus] [(ILT)]
[Bovine Adenovirus Type 4]
[Canine Adenovirus (Canine Hepatitis)]
[Canine Parvovirus]
[Equine Herpes Virus (Type 1)]
[Equine Herpes Virus (Type 3)]
[Equine Influenza Virus (Type A)]
[Feline Calicivirus]
[Feline Panleukopenia Virus]
[Feline Rhinotracheitis Virus]
[Foot and Mouth Disease Virus]
[Newcastle Disease Virus]
[Simian Virus (SV40 Virus)]

[*Not approved in California for use against the following viruses*:*]

[Adenovirus Pneumonia]
[African Horse Sickness Virus]
[African Swine Fever Virus (tested with 1% soil load and 342 ppm hard water)]
[Avian Adenovirus [(Type 2)]]
[Avian Reovirus]
[Bovine Polyoma Virus]
[Bovine Pseudocowpox Virus]
[Bovine Viral Diarrhea Virus (no hard water)]
[Calf Rotavirus (no hard water)]
[Canine Coronavirus]
[Canine Parainfluenza Virus]
[Chicken Anemia Virus]
[Coital Exanthema Virus]
[Distemper Virus]
[Duck Adenovirus (no hard water)]
[Duck Enteritis Virus]
[Egg Drop Syndrome Adenovirus]
[Equine Infectious Anemia Virus (Swamp Fever)]
[Equine Arteritis Virus (no hard water)]
[Equine Contagious Abortion Virus]

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[Equine Papillomatosis Virus]
[Equine Influenza Virus (The Cough)]
[Feline Herpes Virus]
[Feline Infectious Peritonitis Virus]
[Feline Parvovirus]
[Hog Cholera Virus]
[Infectious Bronchitis Virus]
[Infectious Bursal Disease Virus]
[Infectious Canine Hepatitis Virus]
[Infectious Pancreatic Necrosis Virus]
[Infectious Salmon Anaemia Virus]
[Infective Bovine Rhinotracheitis Virus (no hard water)]
[Maedi- Visna Virus]
[Marek's Disease Virus]
[Mouse Parvovirus]
[PCV2 Virus (PMWS)]
[Porcine Epidemic Diarrhea Virus [(PEDv)]]
[Porcine Parvovirus]
[Porcine Reproductive and Respiratory Syndrome Virus (PRRS)]
[Porcine Rotavirus]
[Pseudorabies Virus (Aujeszky's Disease) (no hard water)]
[Rotaviral Diarrhea Virus]
[Seneca Valley Virus [(SVV)]]
[Snakehead Rhabdovirus]
[Swine Influenza Virus]
[Swine Vesicular Disease Virus]
[Transmissible Gastroenteritis Virus (TGE) (no hard water)]
[Turkey Herpes Virus (no hard water)]
[Turkey Rhinotracheitis Virus]
[Vesicular Stomatitis Virus]

[FUNGI]
[Trichophyton interdigitale (2%)]

[*Not approved in California for use against the following fungi:*]
[Aspergillus flavus]
[Aspergillus fumigatus]
[Fusarium moniliforme]
[Microsporum canis]

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[PLANT PATHOGENS]

[*Not approved in California for use against plant pathogens*]

[*Alternaria solani*]

[*Botrytis cinera*]

[*Colletotrichum coccodes*]

[*Didymella bryoniae*]

[*Fusarium oxysporum*]

[*Fusarium solani*]

[*Penicillium oxalicum*]

[*Phomopsis sclerotioides*]

[*Pyrenochaeta lycoopersici*]

[*Pythium aphanidermatum*]

[*Rhizoctonia solani*]

[*Sclerotinia sclerotiorum*]

[*Thielaviopsis basicola*]

[*Verticillium dahliae*]

[*Xanthomonas axonopodis*]



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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[BROAD SPECTRUM DISINFECTANT

Virkon™ S is effective against numerous microorganisms affecting animals: viruses*, gram positive and gram negative bacteria, fungi, and mycoplasma (spp. gallisepticum & hyopneumonia). Efficacy of the 1% solution against bacteria and viruses* was determined in the presence of 400 ppm [200 ppm in California] AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., “no hard water,” “1% soil load,” and “use 2% solution. [Refer to Pathogen list for specific contact times and dilution rates [located within label booklet] [(refer to leaflet)]]” [

[Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. Virkon™ S [Product Name] is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses* including Pandemic 2009 H1N1 (formerly called swine flu).]

[This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus*.]

[This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses* including Pandemic 2009 H1N1 (formerly called swine flu).]

[Kills Pandemic 2009 H1N1 influenza A virus* (formerly called swine flu).]

[Kills Pandemic 2009 H1N1 influenza A virus*.]

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

[GENERAL INSTRUCTIONS—POULTRY AND FARM PREMISES

1. Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
2. Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stalls, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
3. Empty all troughs, racks, and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate surfaces with the use-diluted disinfecting solution. Allow surfaces to remain visibly wet for a period of 10 minutes. [Refer to the Pathogen List for specific contact times and dilution rates.]
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.]

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[Virkon™ S DILUTION CHART

To achieve the appropriate use-diluted Virkon™ S concentration, fill container with the volume of water and quantity of powder or tablet(s) found in the following table. [Stir thoroughly until fully dissolved, then use.] [For a 1% solution, add one (1) tablet to one pint of water.] [For a 1% solution, empty one 1.3 oz. sachet into 1 gallon of water.] .

[{Powder:}]

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 Quart	0.15 ounces	0.3 ounces	0.7 ounces
1 Gallon	0.65 ounces [/ ½ Scoop]	1.3 ounces [/ 1 Scoop]	2.7 ounces [/ 2 Scoops]
10 Gallons	6.7 ounces [/ 5 Scoops]	13.4 ounces [/ 10 Scoops]	26.7 ounces [/ 20 Scoops]
50 Gallons	33.4 ounces [/ 25 Scoops]	66.8 ounces [/ 50 Scoops]	133.5 ounces [/ 100 Scoops]

Measuring cup provided.] [1 Scoop = 1.3 ounces] [1 measuring cup = 1 scoop = 1.3oz.]

[{Tablet:}]

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 Pint	-	1 tablet	2 tablets
1 Quart	1 tablet	2 tablets	4 tablets
1 Gallon	4 tablets	8 tablets	16 tablets

[{Sachet:}]

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 Gallon	-	1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

{Dilution tables specific to each product form are optional and will appear on the appropriate form's label}

†† The 0.5% solution currently is not approved for use in California.

[Solutions are stable for 7 days. Do not soak metal objects in Virkon™ S for long periods. [Refer to Pathogen list for specific contact times [and exceptions].] One gallon of solution is sufficient to treat 135 sq. ft.] [This powder formulation is easily diluted for use in manual or machine operations.]

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[[Instructions for making a 1:600^{††} Dilution] {note to reviewer: the 1:600 dilution is only approved for specific pathogens and was approved via OPP decision 547362. This section will only appear on marketing material geared towards these specific pathogens or on commercial labeling where the full dilution table, directions for use, and instructions on pathogens approved at 1:600 already appear.}

[How to make a 1:600^{††} dilution of Virkon™ S]

[1:600^{††} dilution is equal to 1 scoop [(1.3oz)] of Virkon™ S in 6 Gallons of water]

[Quantity of Water	1:600 Solution ^{††}]
	10 Gallons	2.2 ounces [/ 2 Scoops]	
	50 Gallons	11.0 ounces [/ 9 Scoops]	

[Measuring cup provided.] [1 Scoop = 1.3 ounces] [1 measuring cup = 1 scoop = 1.3oz.]

^{††} - Not an approved use in California.]

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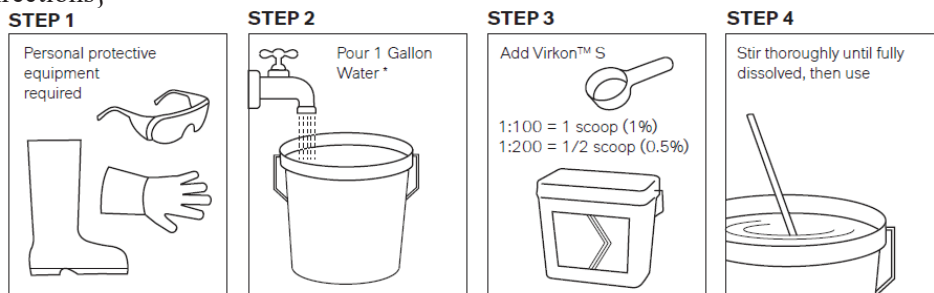
[Virkon™ Professional – ABN]

{Optional pictograms for making an in-use solution, using select volumes from the dilution chart. }

[How to make a ready-to-use Virkon™ S disinfectant solution:]

{From powder instructions, all text is 6pt or larger:}

{Option 1A: Deionized water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}

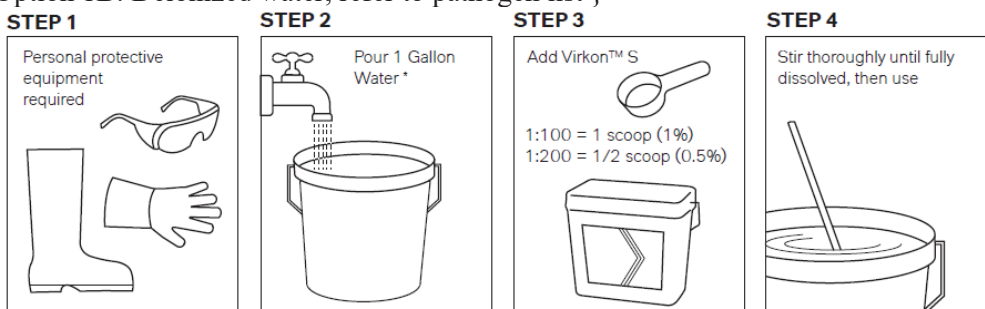


Measuring cup provided. 1 scoop = 1.3oz, 1/2 scoop = 0.65oz.

The 0.5% solution currently is not approved for use in California.

*Use deionized water for pathogens on master label denoted with a 1 on the pathogen list.

{Option 1B: Deionized water, refer to pathogen list }

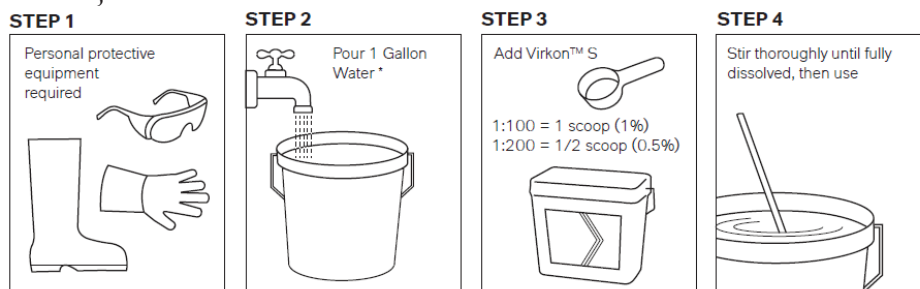


Measuring cup provided. 1 scoop = 1.3oz, 1/2 scoop = 0.65oz.

The 0.5% solution currently is not approved for use in California.

*Use deionized water where applicable, see pathogen list.

{Option 2A: Distilled water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}



Measuring cup provided. 1 scoop = 1.3oz, 1/2 scoop = 0.65oz.

The 0.5% solution currently is not approved for use in California.

* Use distilled water for pathogens on master label denoted with a 1 on the pathogen list.

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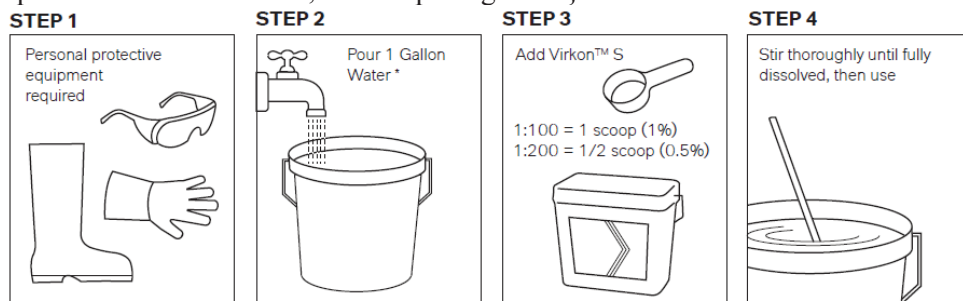
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[Virkon™ Professional – ABN]

{Option 2B: Distilled water, refer to pathogen list}

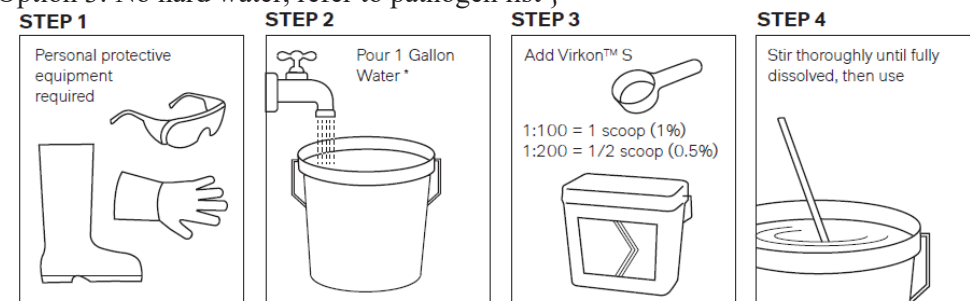


Measuring cup provided. 1 scoop = 1.3oz, 1/2 scoop = 0.65oz.

The 0.5% solution currently is not approved for use in California.

*Use distilled water where applicable, see pathogen list.

{Option 3: No hard water, refer to pathogen list }



Measuring cup provided. 1 scoop = 1.3oz, 1/2 scoop = 0.65oz.

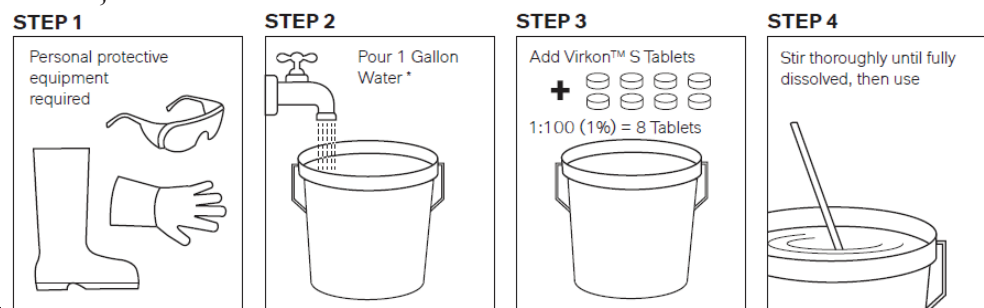
The 0.5% solution currently is not approved for use in California.

*No hard water for the pathogens indicated on pathogen list.

[How to make a ready-to-use Virkon™ S disinfectant solution:]

{From tablet instructions, all text is 6pt or larger:}

{Option 1A: Deionized water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}



*Use deionized water for pathogens on master label denoted with a '1' on the pathogen list.

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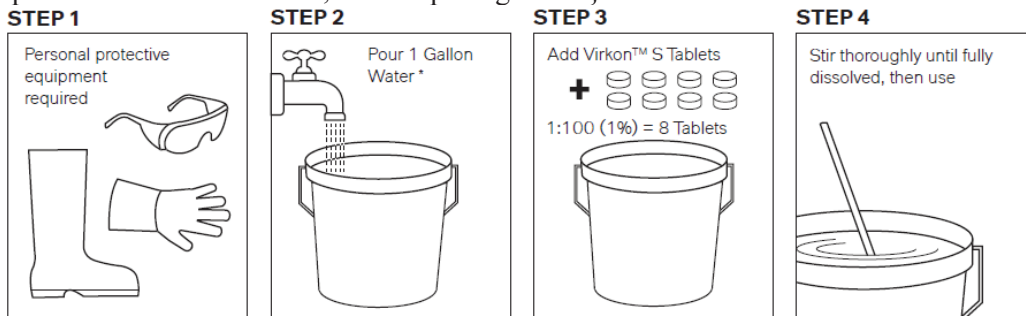
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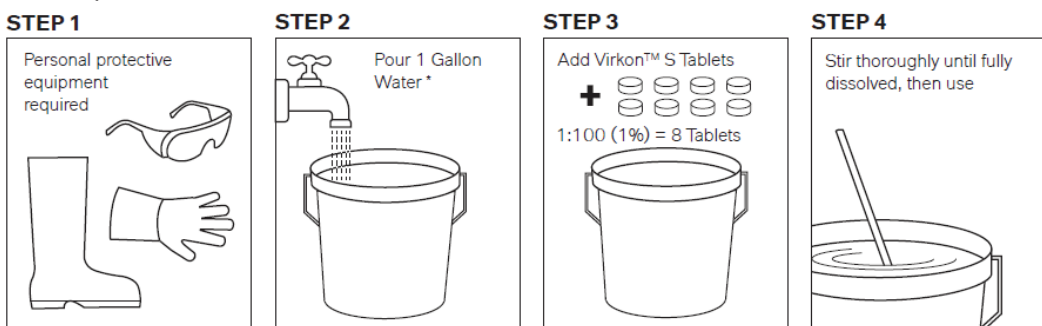
[Virkon™ Professional – ABN]

{Option 1B: Deionized water, refer to pathogen list }



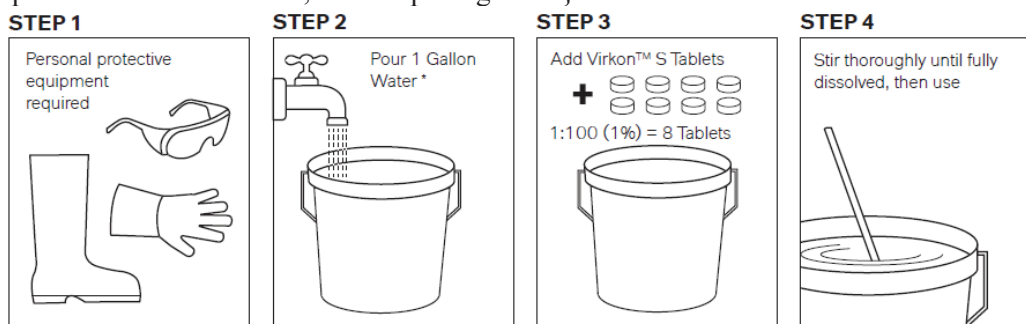
*Use deionized water where applicable, see pathogen list.

{Option 2A: Distilled water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}



*Use distilled water for pathogens on master label denoted with a '1' on the pathogen list.

{Option 2B: Distilled water, refer to pathogen list}



*Use distilled water where applicable, see pathogen list.

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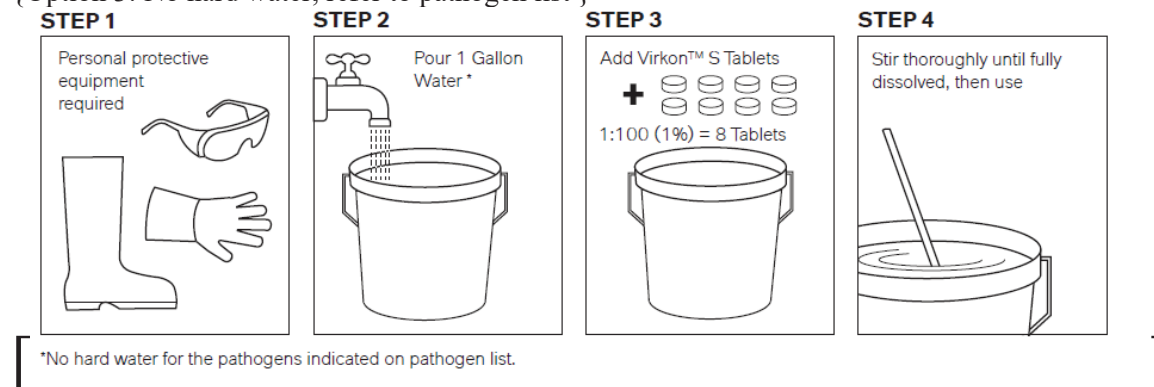
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{Option 3: No hard water, refer to pathogen list }



[[WATERPROOF] [RUBBER] [BOOT DISINFECTION] [BOOT BATH] [FOOT BATH]

[Virkon™ S at a 1% solution can be used for cleaning and disinfecting [rubber] [waterproof] boots**.] [Boot bath disinfectant] [Foot bath disinfectant] [How to make a Virkon™ S disinfectant boot bath]

[Boot bath and tray

Place boot bath or tray at entrances to reduce cross contamination on treated surfaces in poultry and farm premises, livestock facilities and stalls, and animal containment areas.

1. Make a 1% solution of Virkon™ S by filling a suitable container with water and Virkon™ S according to the dilution table [from product label]. Stir thoroughly until fully dissolved. [Solutions are stable for 7 days.][Change the solution every 2 to 3 days or when it becomes visibly soiled]
2. Before application of Virkon™ S solution, rinse or brush footwear surfaces [including soles] to remove visible filth and heavy soil deposits.
3. Step into the container with boots on and use a clean brush to clean boots with disinfectant solution. [Alternatively user may remove boots and place in container of solution and then follow instructions to clean boots].
4. Wash boots thoroughly paying close attention to the soles. Allow surfaces to remain visibly wet for a period of 10 minutes. [Surface contact time is 10 minutes]

**-Virkon™ S should only be used on water proof or non-porous footwear. Do not use on footwear that is damaged or permeable by water.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

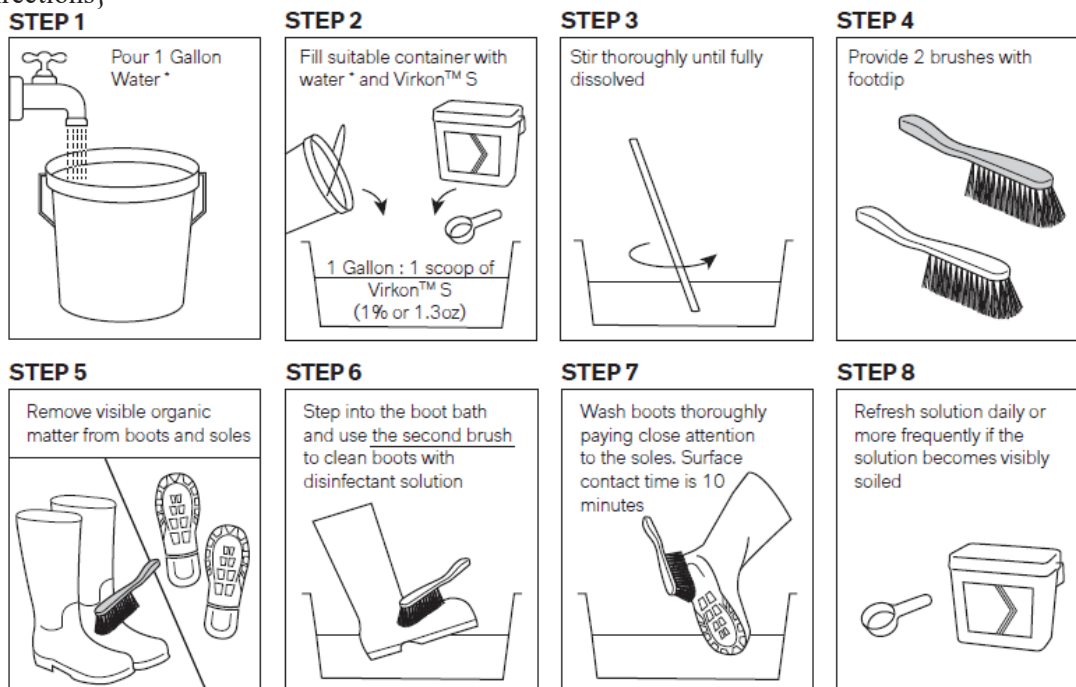
{Optional marketing graphics/pictograms for footwear disinfection:}

[How to make a Virkon™ S disinfectant boot bath:]

[Preparing the solution:] {may appear before Steps 1-4 pictogram}

[How to disinfect rubber boots using Virkon™ S:] {may appear before Steps 5-6 pictogram or in conjunction with “Preparing the Solution” text}

{Option 1A: Deionized water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}



*Use deionized water for pathogens on master label denoted with a 1 on the pathogen list.

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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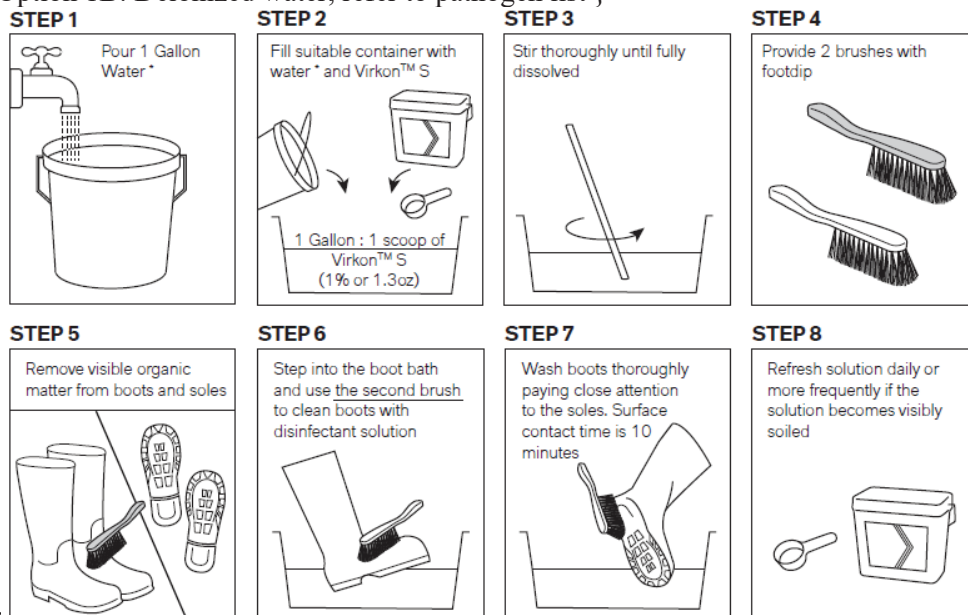
[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

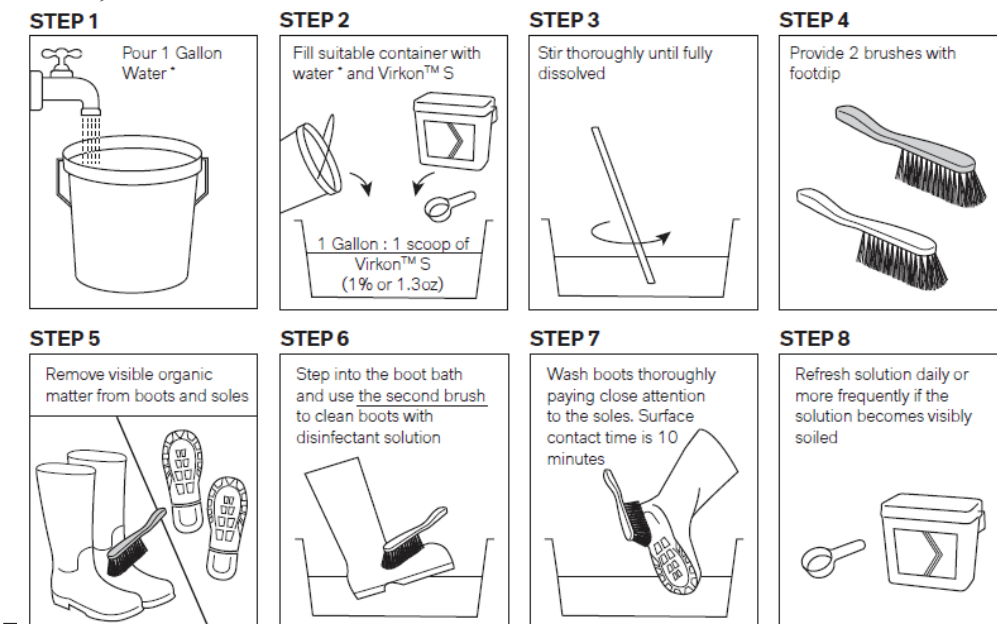
[Virkon™ Professional – ABN]

{Option 1B: Deionized water, refer to pathogen list }



*Use deionized water where applicable, see pathogen list.

{Option 2A: Distilled water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}



* Use distilled water for pathogens on master label denoted with a 1 on the pathogen list.

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Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

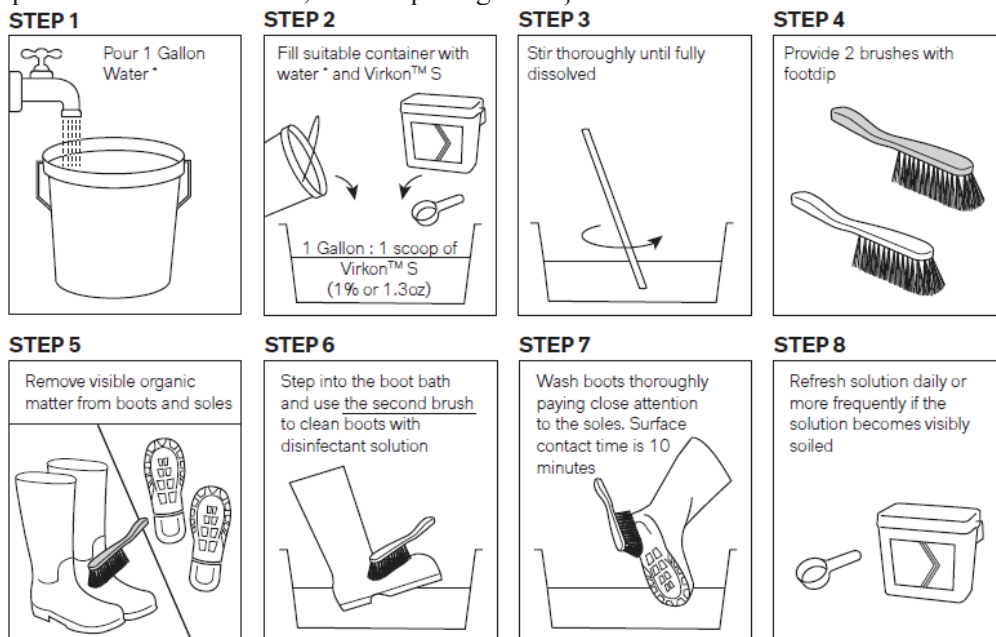
[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

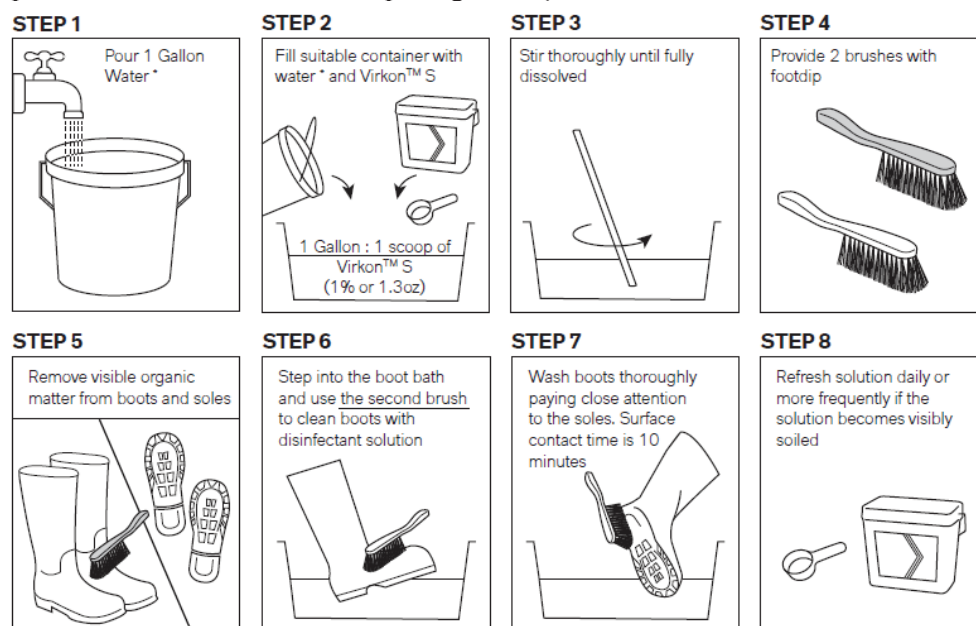
[Virkon™ Professional – ABN]

{Option 2B: Distilled water, refer to pathogen list}



*Use distilled water where applicable, see pathogen list.

{Option 3: No hard water, refer to pathogen list }



*No hard water for the pathogens indicated on pathogen list.

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]



[{may appear in color or black and white}]

[POULTRY PRODUCTION AND RATITE PRODUCTION]

[CONTROLS: Viruses of Newcastle Disease, Avian [Infectious] Laryngotracheitis virus and Avian Influenza virus; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Avian Adenovirus Type 2, Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease virus, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI Fungi of Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.]

[HATCHERIES: Virkon™ S at 1% solution can be used for cleaning and disinfecting hatching, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate hard, non-porous surfaces with a 1% solution of Virkon™ S with a cloth, mop, mechanical spray, or sponge. Allow surfaces to remain visibly wet for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and pre-clean area to be treated. Spray floors and walls with Virkon™ S at 1% solution. Treated surfaces should remain visibly wet for duration of specified contact time. Thoroughly wash waterers and feeders with a 1% solution of Virkon™ S. Allow surfaces to remain visibly wet for a period of 10 minutes. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.]

[PROCESSING PLANTS: Spray Virkon™ S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate hard, non-porous surfaces with the use-diluted disinfection solution. Allow surfaces to remain visibly wet for a period of 10 minutes. Allow surfaces to air dry.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

[SWINE PRODUCTION] .

[CONTROLS: Bacteria of; *Actinobacillus Pleuropneumoniae* and *Clostridium perfringens*; Foot and Mouth Disease virus, Fungi of *Trichophyton interdigitale* (2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza virus, Porcine Epidemic Diarrhea Virus (PEDv), Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS), Porcine Rotavirus, Pseudorabies virus, Rotaviral Diarrhea virus, Seneca Valley Virus (SVV), African Swine Fever virus, Fungi of *Fusarium moniliforme*, and Bacteria of *Staphylococcus hyicus* (Greasy Pig,) and *Treponema hyodysenteriae*.]

[Follow General Instructions to remove swine and pre-clean area to be treated. Use a 1% solution of Virkon™ S for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon™ S with a cloth, mop, mechanical spray, or sponge. Allow surfaces to remain visibly wet for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[EQUINE PRODUCTION]

[BROAD SPECTRUM EQUINE DISINFECTANT/DETERGENT/WASH FOR
CLEANING AND DISINFECTING STABLES AND EQUIPMENT]

[CONTROLS: Viruses of Equine herpes Type 1 and Type 3 and Equine Influenza. Bacteria of; *Brucella abortus*, *Clostridium perfringens*, *Dermatophilus congolensis* (at 2%), *Pseudomonas aeruginosa*, *Salmonella typhimurium* and *Staphylococcus aureus*. Fungi of *Trichophyton interdigitale* (at 2%). Not approved in California for use against the following organisms: Fungi of *Fusarium moniliforme*, Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exanthema, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of *Clostridial Diarrhea*, *Fistulous Withers* (Poll Evil), *Taylorella equigenitalis*, *Bordetella bronchiseptica*, *Streptococcus equi* (Strangles) and *Pseudomonas mallei* (Glanders).]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ Professional – ABN]

[APPLICATIONS: For cleaning and disinfecting hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon™ S solution, saturating surfaces for a period of 10 minutes. Allow surfaces to remain visibly wet for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[To Clean Blankets, Saddle Pads and Rugs: *Not an approved use in California*: Using a 1% solution of Virkon™ S, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.]

[BOVINE PRODUCTION]

[CONTROLS: Bovine Adenovirus Type 4, Foot and Mouth Disease virus ; Fungi of Trichophyton interdigitale (2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, and Bacteria of Haemophilus somnus.]

[Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon™ S to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon™ S with a cloth, mop, mechanical spray, or sponge. Allow surfaces to remain visibly wet for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

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[Virkon™ VC Disinfectant and Virucide* for Veterinary~ABN]
[Virkon™ Professional –ABN]

[COMPANION ANIMALS]

[CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton interdigitale (2%). Not approved in California for use against the following organisms: Viruses of Distemper, Feline parvovirus, Feline herpes; Bacteria of Leptospira canicola; Fungi of Microsporum canis.]

[APPLICATIONS: Use a 1% solution of Virkon™ S as a “one step” cleaning and disinfecting procedure (Remove visible filth and soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages [caging systems]within or [associated with]Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles.

Saturate surfaces with a 1% solution of Virkon™ S with a cloth, mop, mechanical spray, or sponge. Allow surfaces to remain visibly wet for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon™ S for long periods. [Refer to Pathogen list for specific contact times.]]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

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[Virkon™ Professional – ABN]

[GREENHOUSES AND HORTICULTURE]

[Virkon™ S is intended to disinfect hard, non-porous environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays, and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds, or soil. Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.]

For surfaces and equipment

- 1) Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2) Use a dilution of 1:100 or 1.3 oz. Virkon™ S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3) Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces. Allow surfaces to remain visibly wet for a period of 10 minutes. [Refer to pathogen list for specified contact times.]
- 4) Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5) Reapply as often as needed for control. ~~For clean non-porous hard surfaces~~

For clean non-porous hard surfaces

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon™ S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon™ S per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits.]

[For evaporative coolers: Not approved use in California: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon™ S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon™ S for every gallon of cooler water.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ VC Disinfectant and Virucide* for Veterinary~ABN]

[Virkon™ Professional –ABN]

[Virkon™ S may also be used to disinfect irrigation tanks and lines. Not an approved use in California: Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes (allow surfaces to remain visibly wet for a period of 10 minutes) and flush system with clean water after treatment.]

[AQUACULTURE]

[Not approved for this use in California]

[Virkon™ S is intended to disinfect hard, non-porous environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Saturate surfaces with the use-diluted disinfecting solution. Allow surfaces to remain visibly wet for a period of 10 minutes. Virkon™ S may also be used in foot dips. Virkon™ S must not be applied directly to water.]

[Equipment used in separate sites, tanks, ponds in aquaculture settings must be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon™ S solution followed by a water rinse.]

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[Virkon™ Professional – ABN]

[EMERGENCY DISEASE CONTROL ANIMAL HEALTH] [EMERGENCY DISEASE RESPONSE ANIMAL HEALTH] [EMERGENCY DISEASE PREPAREDNESS ANIMAL HEALTH]

[Disinfection helps to reduce cross-contamination of OIE List A organisms including; Newcastle Disease Virus, Foot and Mouth Disease Virus, African Horse Sickness Virus†, Vesicular Stomatitis Virus†, Classical Swine Fever Virus†, (Hog Cholera virus†), African Swine Fever Virus†, Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus†, and Mycoplasma mycoides† (Contagious Bovine Pleuropneumonia†).
†Not approved for this use in California.]

[Use a 1% solution of Virkon™ S to clean and disinfect hard non-porous surfaces [associated with] agricultural facilities and equipment, military facilities and equipment; airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harboring Foot and Mouth Disease Virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers).

On surfaces that have been pre-cleaned with water [and soap or detergent] to remove organic deposits, spray Virkon™ S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces with the use-diluted disinfecting solution. Allow surfaces to remain visibly wet for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon™ S for long periods. [Refer to Pathogen List for specific contact times.]]

{Optional Additional related terminology }

[Animal Health: For Use in Emergency Disease Control] [Animal Health: For Use in Emergency Disease Response] [Animal Health: For Use in Emergency Disease Preparedness]
{note to reviewer- see page 36 for additional optional marketing text related to the section above}

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ Professional – ABN]

[DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS*]

Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organism at the dilution rates specified below. If the [pathogen][virus]{*either term may be used*} is limited to the organism below, Virkon™ S may be used at the following dilution rates:

Organism	Dilution Rate	Oz./Gallon
PCV2 virus* (PMWS)	1:200	0.7

]

[USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS]

[Use a 1% solution of Virkon™ S to clean and disinfect hard, non-porous surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways. Virkon™ S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.]

To ensure that Virkon™ S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on hard, non-porous surfaces, Virkon™ S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon™ S to pool on surfaces that may be within reach of animals. Do not allow Virkon™ S to come into direct contact with people. Allow Virkon™ S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ Professional – ABN]

[REDUCED CONTACT TIME† (1 MINUTES) DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE CANINE PARVOVIRUS:

† - Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection at a contact time of 10 minutes. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organisms with a 1 minute contact time when used at a dilution of 1:75. If the [pathogen][virus]{*either term may be used*} is limited to the organism below, Virkon™ S may be used at the following dilution rate:

Organism	Dilution	Oz./Gallon
CANINE PARVOVIRUS	1:75	1.7

]

[[How to make a 1:75 solution:] [A 1:75 dilution is equal to 1.5 Scoops Virkon™ S in 1 Gallon of water] [A 1:75 dilution is equal to 10 tablets of Virkon™ S in 1 Gallon of water]]

[DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE [PORCINE EPIDEMIC DIARRHEA VIRUS, PORCINE ROTAVIRUS, AND PORCINE REPRODUCTIVE & RESPIRATORY SYNDROME][PEDv, PRRS, AND PORCINE ROTAVIRUS]† [Virkon™ S is effective [on] [against] PEDv, PRRS, AND PORCINE ROTAVIRUS at 1:600]† [Virkon™ S is effective against PEDv, PRRS, AND PORCINE ROTAVIRUS at a 1:600 dilution rate]†

†-Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organisms at the dilution rates specified below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organisms below, Virkon™ S may be used at the following dilution rates:

Organism	Dilution Rate	Oz./Gallon
PEDv virus±	1:600	0.215
PRRS	1:600	0.215
PORCINE ROTAVIRUS	1:600	0.215

]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ Professional – ABN]

[DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE [AVIAN INFLUENZA][AI]† [Virkon™ S is effective [on] [against] AVIAN INFLUENZA at 1:600]†
[Virkon™ S is effective against AVIAN INFLUENZA at a 1:600 dilution rate]†

†-Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organism at the dilution rate specified below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organism below, Virkon™ S may be used at the following dilution rate:

Organism	Dilution Rate	Oz./Gallon
AVIAN INFLUENZA	1:600	0.215

]

[COLD TEMPERATURE DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASES:

[VIRKON™ S HAS BEEN PROVEN EFFECTIVE WHEN USED AT TEMPERATURES OF 5°C† FOR THE SPECIFIED PATHOGENS AT THE LISTED DILUTION RATES:]

† - Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection at room temperature. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organisms at a temperature of 5°C at the dilution rates specified below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organisms below, Virkon™ S may be used at the following dilution rates:

Organism	Dilution	Oz./Gallon
AVIAN INFLUENZA virus	1:200	0.7
AVIAN INFECTIOUS BRONCHITIS	1:200	0.7
AVIAN ADENOVIRUS Type 2	1:200	0.7
Marek's Disease Virus	1:200	0.7
PEDv	1:600	0.215
PRRS	1:600	0.215
PORCINE ROTAVIRUS	1:600	0.215

]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

[REDUCED CONTACT TIME†] DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASES:

† - Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection at a contact time of 10 minutes. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organisms with a 1 minute contact time at the dilution rates specified below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organisms below, Virkon™ S may be used at the following dilution rates:

Organism	Dilution	Oz./Gallon
AVIAN INFLUENZA virus	1:200	0.7
AVIAN INFECTIOUS BRONCHITIS	1:200	0.7
PEDv	1:200	0.7

]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ Professional – ABN]

[REDUCED CONTACT TIME, COLD TEMPERATURE (5°C), AND/OR INCREASED DILUTION† FOR DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASES:

† - Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection at a contact time of 10 minutes at room temperature. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces under specific listed conditions against the following organisms below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organisms below, Virkon™ S may be used when the corresponding conditions also are applied:

Organism	Dilution Rate	Oz. / Gallon	Contact Time (min)	Temperature (°C)
AVIAN ADENOVIRUS Type 2	1:200	0.7	10	5
AVIAN INFECTIOUS BRONCHITIS	1:200	0.7	1	5
AVIAN INFLUENZA virus	1:200	0.7	1	5
AVIAN INFLUENZA virus	1:600	0.215	10	RT
INFECTIOUS LARYNGOTRACHETIS VIRUS	1:200	0.7	10	RT
Marek's Disease Virus	1:200	0.7	10	5
PEDv	1:200	0.7	1	5
PEDv	1:600	0.215	10	5
PRRS	1:600	0.215	10	5
PORCINE ROTAVIRUS	1:600	0.215	10	5

(RT= Room temperature= 20-22°C)

]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

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[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

{Optional equipment instructions: Hydrofoamer 481 dilution and detailed user information for use with Virkon™S}

[Using the Hydrofoamer 481 (96oz.)[†] – How to Make a Concentrated Stock Solution

10lb Pail of Virkon™ S = 160 oz. [(†-Not approved for this use in California)]

(note to reviewer chart may appear as is or only showing 1:100 or 1:600 column.)

Dilution Factor (DF)	Hydrofoamer Tip Color	1:100 Dilution Rate (1.3 oz./gal)	1:600 Dilution Rate ¹ (0.22 oz./gal)
Calculation		$\frac{\text{oz.} = 1.3\text{oz} \times \text{DF} \times \text{Volume of sprayer in gallons}}{\text{\# of scoops} = \frac{\text{oz. Virkon}^{\text{TM}} \text{ S}}{1.3 \text{ oz.}}}$	$\frac{\text{oz.} = 0.22\text{oz.} \times \text{DF} \times \text{Volume of sprayer in gallons}}{\text{\# of scoops} = \frac{\text{oz. Virkon}^{\text{TM}} \text{ S}}{1.3 \text{ oz.}}}$
12:1	No Tip	11.7 oz Virkon™ S 9 scoops of Virkon™ S	1.98 oz Virkon™ S 1.5 scoops of Virkon™ S
14:1	White	13.65 oz Virkon™ S 10.5 scoops of Virkon™ S	2.31 oz Virkon™ S 1.8 scoops of Virkon™ S
16:1	Blue	15.6 oz Virkon™ S 12 scoops Virkon™ S	2.64 oz Virkon™ S 2 scoops Virkon™ S
18:1	Tan	N/A	2.97 oz Virkon™ S 2.3 scoops Virkon™ S
32:1	Orange	N/A	5.28 oz Virkon™ S 4 scoops Virkon™ S
64:1	Purple	N/A	10.56 oz Virkon™ S 8.1 scoops Virkon™ S

[A Virkon™ S solution would be highly concentrated at DF ratios above 1:16 for 1:100 dilution rate (not fully soluble), denoted as N/A.]

(¹The 1:600 dilution is only approved for viruses of Avian Influenza Virus, Porcine Epidemic Diarrhea virus, Porcine Reproductive and Respiratory Syndrome, and Porcine Rotavirus. Please consult product label and use directions for 1:600 dilution for specified and known organisms)]

[Convert your Hydrofoamer from ounces to gallons

32 oz = 0.25 gallon

96 oz = 0.75 gallon

64 oz = 0.5 gallon

128 oz = 1 gallon

]

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[Virkon™ Professional – ABN]



{optional picture of equipment may appear color or b&w}

{Optional equipment instructions: How to make a 1:100 or 1:600 ready to use solution}{in-use solution}{note to reviewer chart may appear as is or only showing 1:100 or 1:600 column.)

[
How to make a Virkon™ S solution

Volume (gallon)	1:100 Dilution Rate (1.3 oz./gal)	1:600 Dilution Rate ^{1†} (0.22 oz./gal)
	Volume x 1.3 = oz. Virkon™ S	Volume x 0.22 = oz. Virkon™ S
1	1.3 oz.	0.22 oz
5	6.5 oz.	1.1 oz.
10	13.0 oz.	2.2 oz.
50	65.0 oz.	11.0 oz.

(†-Not approved for this use in California)]

(¹-Not all pathogens are approved for 1:600 dilution. Please consult product label and use directions for 1:600 dilution for specified and known organisms)]

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[Virkon™ Professional – ABN]

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal

PESTICIDE STORAGE:

For pails, [jugs], [bottles]: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. [Retain desiccant canister with product during storage.] Do not mix this product with other chemicals.

For [sachet] [pouch] [packet] [bag]: Store in a cool dry place. Keep out of reach of children. [Retain desiccant canister with product during storage.] Do not mix this product with other chemicals.

[For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Do not mix this product with other chemicals.]

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. [Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.]^{1} [-refer to product [leaflet] [insert] [booklet] [label] for pesticide disposal instructions]

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. [Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment.] [Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.]^{2} [-refer to product [leaflet] [insert] [booklet][label] for container disposal instructions]

^{1}Note to reviewer: When the size of container prohibits fitting full statement on the container, the text in brackets denoted in [...] ¹ above will be replaced with the below statement in red:

[-refer to product [leaflet] [insert] [booklet] [label] for pesticide disposal instructions]

Please note this will only occur when the full statement (denoted in [...] ¹) instead appears on additional labeling accompanying or included with each container of product.

^{2}Note to reviewer: When the size of container prohibits fitting full statement on the container, the text in brackets denoted in [...] ² above will be replaced with the below statement in red:

[-refer to product [leaflet] [insert] [booklet] [label] for pesticide disposal instructions]

Please note this will only occur when the full statement (denoted in [...] ²) instead appears on additional labeling accompanying or included with each container of product.

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[Virkon™ Professional – ABN]

{Optional company logo-may appear in color, black only, or grey scale}



{Optional Product Specific Branding/Marketing Logos- may appear in color, black only, or grey scale}



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[Virkon™ Professional – ABN]



[Optional tablet picture to be used on insert/leaflet for tablet form only]

{Additional Marketing Claims}

[Will not harm most surfaces upon incidental contact]

[Will not harm most hard non-porous surfaces]

[Compatible with most surfaces upon incidental contact]

[Compatible with most hard non-porous surfaces]

[Non-damaging to most surfaces upon incidental contact]

[Non-damaging to most hard non-porous surfaces]

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[Virkon™ Professional – ABN]

{The following text will only appear on or in reference to specific products formulated in the US (at an EPA Registered Establishment, located in the USA) where at least 85% of the product's content is of domestic origin or processing}

[85% US Content Made in USA of US & Imported Materials]

**85% US Content
Made in USA
of US & Imported
[Materials]**

[Destroys bacteria, fungi, viruses* on hard non-porous surfaces found in facilities for [swine], [poultry], [dairy], [and][equine]]

[Destroys bacteria, fungi, viruses* on hard non-porous surfaces found in [swine] [poultry] , [dairy], [equine] , [animal] holding facilities.]

[Destroys bacteria, fungi, viruses* on hard non-porous surfaces found in [shelters] and/or [vet] [clinics] [practices]]

[[Poultry facility] [Ratite facility] [Swine facility] [Companion Animal facility] disinfectant][For Barriers, End of production cycle and daily use]

[Approved for use against pathogens* known to cause epidemic outbreaks (*-See pathogen table for full list of efficacy)]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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 [Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]
 [Virkon™ Professional – ABN]

{Optional Animal Health Marketing language related to “For Use in Emergency Disease Control related to Animal Health”}

[For Use in Emergency Disease Control [in] [related to] Swine [Production]]

[For Use in Emergency Disease Control [in] [related to] Poultry [Production]]

[For Use in Emergency Disease Control [in] [related to] Turkey [Production]]

[For Use in Emergency Disease Control [in] [related to] Equine [Production]]

[For Use in Emergency Disease Control [in] [related to] Bovine [Production]]

[For Use in Emergency Disease Response [in][related to] Swine [Production]]

[For Use in Emergency Disease Response [in] [related to] Poultry [Production]]

[For Use in Emergency Disease Response [in] [related to] Turkey [Production]]

[For Use in Emergency Disease Response [in] [related to] Equine [Production]]

[For Use in Emergency Disease Response [in] [related to] Bovine [Production]]

[For Use in Emergency Disease Preparedness Response [in][related to] Swine [Production]]

[For Use in Emergency Disease Preparedness Response [in] [related to] Poultry [Production]]

[For Use in Emergency Disease Preparedness Response [in] [related to] Turkey [Production]]

[For Use in Emergency Disease Preparedness Response [in] [related to] Equine [Production]]

[For Use in Emergency Disease Preparedness Response [in] [related to] Bovine [Production]]

{turkey= RATITE }

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[Virkon™ VC Disinfectant and Virucide* for Veterinary~ABN]
[Virkon™ Professional –ABN]

[Virkon™ Professional: For [Routine] [Daily] Disinfection]

[Virkon™ Professional: [Routine][Daily] Disinfection for Veterinary Clinics & Companion Animal facilities]

[Virkon™ Professional: Companion Animal Facility Disinfectant]

[Performs in the laboratory. Performs on the Farm.]

[Effective against food-poisoning pathogens [Salmonella enterica] [Salmonella typhimurium] [Campylobacter jejuni] [Escherichia coli] [Listeria monocytogenes] [Clostridium perfringens] [and] [Staphylococcus aureus]]

[Effective boot bath disinfectant]

[Independently proven broad spectrum efficacy]

[No need for rotation]

[No need for a rotational program]

[Easy to transport and store]

[Safe to use on floors, equipment, cages and kennels, when used as directed]

[Cleans [mineral deposits associated with] hard water scale]

[Cleans stains from algae]

[Cleans hard water stains]

[Cleans mineral deposits]

[Effective against Canine Parvovirus in 1 minutes¹ at a 1:75 dilution rate¹][Virkon™ S is effective against Canine Parvovirus: {in burger dots} 1 minutes {burger dot} 1:75 dilution rate¹][Virkon™ S is effective against Canine Parvovirus in 1 minutes¹ at a 1:75 dilution rate¹]
[¹Not Approved for this use in California]

[Effective against known pathogen of Canine Parvovirus in 1 minutes¹ at a 1:75 dilution rate¹]
[¹Not Approved for this use in California]

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[Virkon™ Professional – ABN]

{Marketing claims related to use at 1:600 dilution, reduced contact time, and/or cold temperatures of 5°C (note to reviewer in all statements the use of ‘poultry’ or ‘swine’ in the brackets above shall not appear without at least one of the specific pathogens listed)}

[Effective at cold temperature[†], 5°C, against known [poultry] [swine] pathogen[s] of [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [†-Not Approved for this use in California]

[Effective at reduced contact time[†] of 1 minute against known [poultry] [swine] pathogen[s] of [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [and] [PEDv] [†-Not Approved for this use in California]

[Effective at 1:600 dilution[†] against known [poultry] [swine] pathogen[s] of [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [†-Not Approved for this use in California]

[Virkon™ S is effective at cold temperature[s][†], 5°C, against [[poultry] [swine] pathogen[s]]: [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [†-Not Approved for this use in California]

[Virkon™ S is effective at reduced contact time[s][†], 1 minute, against [[poultry] [swine] pathogen[s]]: [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [and] [PEDv] [†-Not Approved for this use in California]

[Virkon™ S is effective at a 1:600 dilution[†] against [[poultry] [swine] pathogen[s]]: [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [†-Not Approved for this use in California]

[Virkon™ S can be used at 5°C[†] against [[poultry] [swine] pathogen[s]]: [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [†-Not Approved for this use in California]

[Virkon™ S can be used with a contact time[†] of 1 minute against [[poultry] [swine] pathogen[s]]: [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [and] [PEDv] [†-Not Approved for this use in California]

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 [Virkon™ Professional – ABN]

[Virkon™ S can be used at a 1:600 dilution[†] against [[poultry] [swine] [pathogen[s]]:
 [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [[†]-Not Approved for
 this use in California]

[1:600 dilution = 1 scoop [(1.3oz)] of Virkon™ S to 6 gallons of water]

[1:600 dilution = 1.3oz of Virkon™ S to 6 gallons of water]

[Cold temperature disinfectant[ion], 5°C,[against] [for] [[poultry] [swine] pathogen[s]]:
 [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN
 INFLUENZA virus] [Marek's Disease Virus] [PEDv] [PRRS][and] [Porcine rotavirus]]

[Cold weather disinfectant, 5°C, [against] [for] [[poultry] [swine] pathogen[s]]: [AVIAN
 ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA
 virus] [PEDv] [PRRS][and] [Porcine rotavirus]]

[Effective in low temperatures, 5°C, against [[poultry] [swine] pathogen[s]]: [AVIAN
 ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA
 virus] [PEDv] [PRRS][and] [Porcine [Virkon™ S - proven effective in cold temperatures, 5°C
 against [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN
 INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]]

[Proven efficacy in cold winter temperatures, 5°C, against [AVIAN ADENOVIRUS Type 2]
 [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and]
 [Porcine rotavirus]]

[Effective low-temperature performance, 5°C, against [AVIAN ADENOVIRUS Type 2]
 [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and]
 [Porcine rotavirus]]

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[Virkon™ Professional – ABN]

{Note to reviewer- Optional Table to be reproduced either in part or full in marketing materials and/or labeling- all columns will appear but only partial list of pathogens may appear depending on the literature purpose. User will also be directed to consult product label for directions for use. May replace pathogen index found on page 3-6}

[PATHOGEN LIST]

PATHOGEN	Dilution Rate	Oz./ Gallon	Contact Time	Temp.
VIRUSES*				
Adenovirus Pneumonia†	1:100	1.3 oz	10 mins	RT
African Horse Sickness Virus†	1:100	1.3 oz	10 mins	RT
African Swine Fever Virus† ²	1:100	1.3 oz	10 mins	RT
Avian Adenovirus Type 2†	1:200	0.7 oz	10 mins	5°C
Avian Infectious Bronchitis†	1:200	0.7 oz	10 mins	5°C
Avian Infectious Bronchitis†	1:200	0.7 oz	1 min	RT
Avian Infectious Bronchitis†	1:200	0.7 oz	1 min	5°C
Avian Influenza Virus	1:100	1.3 oz	10 mins	RT
Avian Influenza Virus	1:200†	0.7 oz	10 mins	5°C
Avian Influenza Virus	1:200†	0.7 oz	1 min	RT
Avian Influenza Virus	1:200†	0.7 oz	1 min	5°C
Avian Influenza Virus	1:600†	0.215 oz	10 mins	RT
Avian Influenza Virus {deleted, this is a duplicate of above line}	1:600†	0.215 oz	10 mins	RT
Avian Influenza Virus {deleted, this is a duplicate of a previous line}	1:100	1.3 oz	10 mins	RT
Avian [Infectious] Laryngotracheitis Virus	1:100	1.3 oz	10 mins	RT
Avian [Infectious] Laryngotracheitis virus	1:200†	0.7 oz	10 mins	5°C
Avian Reovirus†	1:100	1.3 oz	10 mins	RT
Bovine Adenovirus Type 4	1:100	1.3 oz	10 mins	RT
Bovine Polyoma Virus†	1:100	1.3 oz	10 mins	RT
Bovine Pseudocowpox Virus†	1:100	1.3 oz	10 mins	RT
Bovine Viral Diarrhea Virus† ¹	1:100	1.3 oz	10 mins	RT
Calf Rotavirus† ¹	1:100	1.3 oz	10 mins	RT
Canine Adenovirus (Canine Hepatitis)	1:100	1.3 oz	10 mins	RT
Canine Coronavirus†	1:100	1.3 oz	10 mins	RT
Canine Parainfluenza Virus†	1:100	1.3 oz	10 mins	RT
Canine Parvovirus	1:75†	1.9 oz	1 min	RT
Canine Parvovirus	1:100	1.3 oz	10 mins	RT
Chicken Anemia Virus†	1:100	1.3 oz	10 mins	RT
Coital Exanthema Virus†	1:100	1.3 oz	10 mins	RT
Distemper Virus†	1:100	1.3 oz	10 mins	RT

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[Virkon™ Professional –ABN]

Duck Adenovirus† ¹	1:100	1.3 oz	10 mins	RT
Duck Enteritis Virus†	1:100	1.3 oz	10 mins	RT
Egg Drop Syndrome Adenovirus†	1:100	1.3 oz	10 mins	RT
Equine Arteritis Virus† ¹	1:100	1.3 oz	10 mins	RT
Equine Contagious Abortion Virus†	1:100	1.3 oz	10 mins	RT
Equine Herpes Virus (Type 1)	1:100	1.3 oz	10 mins	RT
Equine Herpes Virus (Type 3)	1:100	1.3 oz	10 mins	RT
Equine Infectious Anemia Virus (Swamp Fever)†	1:100	1.3 oz	10 mins	RT
Equine Influenza Virus (The Cough)†	1:100	1.3 oz	10 mins	RT
Equine Influenza Virus (Type A)	1:100	1.3 oz	10 mins	RT
Equine Papillomatosis Virus†	1:100	1.3 oz	10 mins	RT
Feline Calicivirus	1:100	1.3 oz	10 mins	RT
Feline Herpes Virus†	1:100	1.3 oz	10 mins	RT
Feline Infectious Peritonitis Virus†	1:100	1.3 oz	10 mins	RT
Feline Panleukopenia Virus	1:100	1.3 oz	10 mins	RT
Feline Parvovirus†	1:100	1.3 oz	10 mins	RT
Feline Rhinotracheitis Virus	1:100	1.3 oz	10 mins	RT
Foot and Mouth Disease Virus	1:100	1.3 oz	10 mins	RT
Hog Cholera Virus†	1:100	1.3 oz	10 mins	RT
Infectious Bronchitis Virus†	1:100	1.3 oz	10 mins	RT
Infectious Bursal Disease Virus†	1:100	1.3 oz	10 mins	RT
Infectious Canine Hepatitis Virus†	1:100	1.3 oz	10 mins	RT
Infectious Pancreatic Necrosis Virus†	1:100	1.3 oz	10 mins	RT
Infectious Salmon Anaemia Virus†	1:100	1.3 oz	10 mins	RT
Infective Bovine Rhinotracheitis Virus† ¹	1:100	1.3 oz	10 mins	RT
Maedi- Visna Virus†	1:100	1.3 oz	10 mins	RT
Marek's Disease Virus†	1:100	1.3 oz	10 mins	RT
Marek's Disease Virus†	1:200	1.3 oz	10 mins	RT
Marek's Disease Virus†	1:200	1.3 oz	10 mins	5°C
Mouse Parvovirus†	1:100	1.3 oz	10 mins	RT
Newcastle Disease Virus	1:100	1.3 oz	10 mins	RT
PCV2 Virus (PMWS)†	1:100	1.3 oz	10 mins	RT
PCV2 Virus (PMWS)†	1:200	0.7 oz	10 mins	RT
PEDv Virus†	1:100	1.3 oz	10 mins	RT
PEDv Virus†	1:200	0.7 oz	10 mins	5°C
PEDv Virus†	1:200	0.7 oz	1 min	RT
PEDv Virus†	1:200	0.7 oz	1 min	5°C
PEDv Virus†	1:600	0.215 oz	10 mins	RT
PEDv Virus†	1:600	0.215 oz	10 mins	5°C
Porcine Parvovirus†	1:100	1.3 oz	10 mins	RT
Porcine Reproductive and Respiratory	1:100	1.3 oz	10 mins	RT

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[Virkon™ Professional – ABN]

Syndrome virus (PRRS)†				
Porcine Reproductive and Respiratory Syndrome virus (PRRS)†	1:600	0.215 oz	10 mins	RT
Porcine Reproductive and Respiratory Syndrome virus (PRRS)†	1:600	0.215 oz	10 mins	5°C
Porcine Rotavirus†	1:100	1.3 oz	10 mins	RT
Porcine Rotavirus†	1:600	0.215 oz	10 mins	RT
Porcine Rotavirus†	1:600	0.215 oz	10 mins	5°C
Pseudorabies Virus (Aujeszky's Disease)† ¹	1:100	1.3 oz	10 mins	RT
Rotaviral Diarrhea Virus†	1:100	1.3 oz	10 mins	RT
Seneca Valley Virus (SVV)†	1:100	1.3 oz	10 mins	RT
Simian Virus (SV40 Virus)	1:100	1.3 oz	10 mins	RT
Snakehead Rhabdovirus†	1:100	1.3 oz	10 mins	RT
Swine Influenza Virus†	1:100	1.3 oz	10 mins	RT
Swine Vesicular Disease Virus†	1:100	1.3 oz	10 mins	RT
Transmissible Gastroenteritis Virus (TGE)† ¹	1:100	1.3 oz	10 mins	RT
Turkey Herpes Virus† ¹	1:100	1.3 oz	10 mins	RT
Turkey Rhinotracheitis Virus†	1:100	1.3 oz	10 mins	RT
Vesicular Stomatitis Virus†	1:100	1.3 oz	10 mins	RT
BACTERIA				
Actinobacillus pleuropneumoniae	1:100	1.3 oz	10 mins	RT
Bacillus cereus	1:100	1.3 oz	10 mins	RT
Bordetella avium†	1:100	1.3 oz	10 mins	RT
Bordetella bronchiseptica†	1:100	1.3 oz	10 mins	RT
Brucella abortus	1:100	1.3 oz	10 mins	RT
Campylobacter jejuni	1:100	1.3 oz	10 mins	RT
Clostridium perfringens	1:100	1.3 oz	10 mins	RT
Dermatophilus congolensis (2%)	1:50	2.7 oz	10 mins	RT
Escherichia coli	1:100	1.3 oz	10 mins	RT
Fistulous withers (Poll Evil)†	1:100	1.3 oz	10 mins	RT
Haemophilus somnus†	1:100	1.3 oz	10 mins	RT
Helicobacter pylori†	1:100	1.3 oz	10 mins	RT
Klebsiella pneumoniae	1:100	1.3 oz	10 mins	RT
Leptospira canicola†	1:100	1.3 oz	10 mins	RT
Listeria monocytogenes†	1:100	1.3 oz	10 mins	RT
Moraxella bovis (Pink Eye)†	1:100	1.3 oz	10 mins	RT
Mycoplasma gallisepticum	1:100	1.3 oz	10 mins	RT
Mycoplasma hyopneumonia	1:100	1.3 oz	10 mins	RT
Mycoplasma mycoides†	1:100	1.3 oz	10 mins	RT
Pasteurella multocida	1:100	1.3 oz	10 mins	RT
Pseudomonas aeruginosa	1:100	1.3 oz	10 mins	RT

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[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

<i>Pseudomonas mallei</i> (Glanders)†	1:100	1.3 oz	10 mins	RT
<i>Proteus vulgaris</i> †	1:100	1.3 oz	10 mins	RT
<i>Salmonella enterica</i>	1:100	1.3 oz	10 mins	RT
<i>Salmonella typhimurium</i>	1:100	1.3 oz	10 mins	RT
<i>Shigella sonnei</i>	1:100	1.3 oz	10 mins	RT
<i>Staphylococcus aureus</i>	1:100	1.3 oz	10 mins	RT
<i>Staphylococcus epidermidis</i>	1:100	1.3 oz	10 mins	RT
<i>Staphylococcus hyicus</i> †	1:100	1.3 oz	10 mins	RT
<i>Streptococcus equi</i> (Strangles)†	1:100	1.3 oz	10 mins	RT
<i>Streptococcus pyogenes</i>	1:100	1.3 oz	10 mins	RT
<i>Streptococcus suis</i>	1:100	1.3 oz	10 mins	RT
<i>Taylorella equigenitalis</i> †	1:100	1.3 oz	10 mins	RT
<i>Treponema hyodysenteriae</i> †	1:100	1.3 oz	10 mins	RT
FUNGI				
<i>Aspergillus flavus</i> †	1:100	1.3 oz	10 mins	RT
<i>Aspergillus fumigatus</i> †	1:100	1.3 oz	10 mins	RT
<i>Fusarium moniliforme</i> †	1:100	1.3 oz	10 mins	RT
<i>Microsporum canis</i> †	1:100	1.3 oz	10 mins	RT
<i>Trichophyton interdigitale</i> (2%)	1:50	2.7 oz	10 mins	RT
PLANT PATHOGENS				
<i>Alternaria solani</i> †	1:100	1.3 oz	10 mins	RT
<i>Botrytis cinera</i> †	1:100	1.3 oz	10 mins	RT
<i>Colletotrichum coccodes</i> †	1:100	1.3 oz	10 mins	RT
<i>Didymella bryoniae</i> †	1:100	1.3 oz	10 mins	RT
<i>Fusarium oxysporum</i> †	1:100	1.3 oz	10 mins	RT
<i>Fusarium solani</i> †	1:100	1.3 oz	10 mins	RT
<i>Penicillium oxalicum</i> †	1:100	1.3 oz	10 mins	RT
<i>Phomopsis sclerotioides</i> †	1:100	1.3 oz	10 mins	RT
<i>Pyrenochaeta lycoopersici</i> †	1:100	1.3 oz	10 mins	RT
<i>Pythium aphanidermatum</i> †	1:100	1.3 oz	10 mins	RT
<i>Rhizoctonia solani</i> †	1:100	1.3 oz	10 mins	RT
<i>Sclerotinia sclerotiorum</i> †	1:100	1.3 oz	10 mins	RT
<i>Thielaviopsis basicola</i> †	1:100	1.3 oz	10 mins	RT
<i>Verticillium dahliae</i> †	1:100	1.3 oz	10 mins	RT
<i>Xanthomonas axonopodis</i> †	1:100	1.3 oz	10 mins	RT

(RT= Room temperature= 20-22°C)]

[† Not approved for this use in California.]

[¹No hard water.]

[²Tested with 1% Soil load, and 342 ppm hard water.]

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[Virkon™ Professional – ABN]

[It is not approved to use a dilution that is less concentrated than the approved dilution for the targeted pathogen. However, it is approved to use a dilution that is equal to, or more concentrated than the approved dilution for the targeted pathogen.]

[Surface Area Coverage Comparison:

[One 10lb pail of Virkon™ S Disinfectant and Virucide* will provide enough in-use solution to disinfect 99,630 ft² of surface area for [PEDv][AI][PRRS]or[Porcine Rotavirus] at a dilution rate of 1:600.]

[Number of gallons: in-use dilution (1:600) = 738 gallons]]

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[trifectant™ Broad Spectrum Disinfectant – ABN]

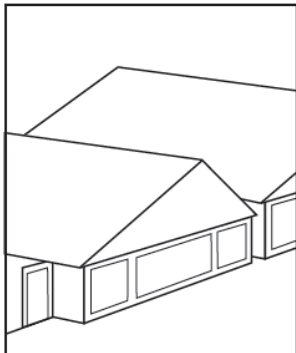
[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

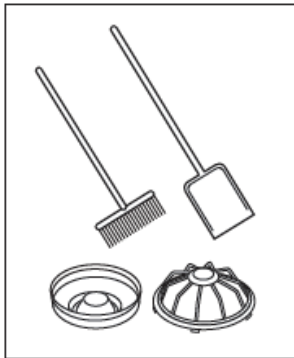
{Optional pictograms and text for marketing pamphlets}

[Virkon™ S in-use solutions can be used for:]

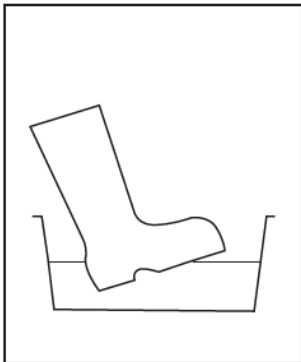
BARN SURFACES



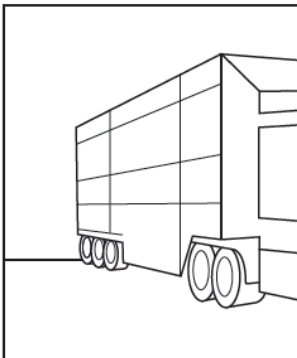
MOVABLE EQUIPMENT



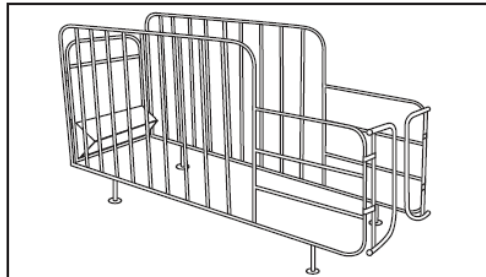
BOOTS & FOOTWEAR



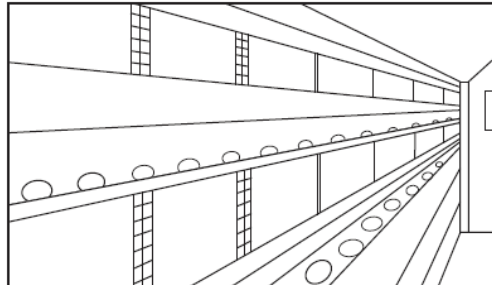
VEHICLES



SWINE STALL



POULTRY CAGES



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[Virkon™ Professional – ABN]

{Optional pictograms and text for containers and literature regarding product discount/sale language:}



[{May appear in color or black and white}]

{note to reviewer: product brand may appear in the below slogans corresponding to any of the ABNs approved by EPA for this registration. Virkon™ S is used as the example language and the product most likely to appear associated with this marketing text. All language is optional for use and does not impact dilution instructions or change net contents of packaging}

[For a Limited Time, You Will Receive 10% Product Free on Your Order of Virkon™ S [10 kg] [22 lb.] Pails.]

[For a Limited Time, You Can Receive 10% Free Product on Your Order of Virkon™ S [10 kg] [22 lb.] Pails.]

[10% Free Product! For a Limited Time on Your Order of Virkon™ S [10 kg] [22 lb.] Pails.]

[For a Limited Time, 10% Free Product on Your Virkon™ S [10 kg] [22 lb.] Pail Order!]

[10% Free Product on Your Virkon™ S [10 kg] [22 lb.] Pail Order!]

[10% Product Free on Your Order of Virkon™ S [10 kg] [22 lb.] Pails!]

[For a Limited Time, You Will Receive 10% Product Free [on Your Order [of Pails]]]

[For a Limited Time, You Can Receive 10% Free Product [on Your Order [of Pails]]]

[For a Limited Time, 10% Free Product [on Your [Pail]order!]]

[10% Free Product [on Your [Pail] Order][!]]

[10% Product Free [on Your Order]]

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{Emerging Pathogen Language- OFF label marketing}

[This product qualifies for emerging viral pathogen claims per the EPA's 'Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels' when used in accordance with the appropriate use directions indicated below.

This product meets the criteria to make claims against certain emerging viral pathogens from the following viral category[ies]:

- Enveloped Viruses
- Large non-enveloped viruses
- Small non-enveloped viruses

For an emerging viral pathogen that is a/an...	..follow directions for use for the following organisms on the label:
Enveloped Virus	Feline Calicivirus (ATCC VR-782) Canine Parvovirus (Cornell-780916-80 strain)
Large, non-enveloped virus	Feline Calicivirus (ATCC VR-782) Canine Parvovirus (Cornell-780916-80 strain)
Small, non-enveloped virus	Feline Calicivirus (ATCC VR-782) Canine Parvovirus (Cornell-780916-80 strain)

*[Virkon™ S has demonstrated effectiveness against viruses similar to [name of emerging virus] on hard, non-porous surfaces. Therefore, Virkon™ S can be used against [name of emerging virus] when used in accordance with the directions for use against **Feline Calicivirus** and **Canine Parvovirus** on hard, non-porous surfaces. Refer to the [CDC or OIE] website at [pathogen-specific website address] for additional information.]*

*[[Name of illness/outbreak] is caused by [name of emerging virus]. Virkon™ S kills similar viruses and therefore can be used against [name of emerging virus] when used in accordance with the directions for use against **Feline Calicivirus** and **Canine Parvovirus** on hard, non-porous surfaces. Refer to the [CDC or OIE] website at [website address] for additional information.]]*